## IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

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1. (currently amended) A device Device for controlling a thick pump with two conveyor cylinders communicating via two end openings (52) in a material supply container (54), operated in counter stroke by a hydraulic reversible pump (6) via hydraulic drive cylinders (5, 5') control by said pump, with a hydraulically actuated pipe switch (56) provided within the material container (54), on its inlet side alternatingly connectable to one of the openings (52) of the conveyor cylinders (50, 50'), freeing the respective other opening, and on the outlet side connected with a conveyor conduit (58), wherein the drive cylinders (5, 5') are hydraulically connected of the reversible pump with а connector (6) respectively one hydraulic line (11, 11'), and on their other end are connected to each other via an oscillating oil line (12), and further comprising a for reversing the reversible pump (6) after the conclusion of each piston stroke, thereby characterized, that wherein the pump-side hydraulic connections of the drive cylinder and hydraulically actuated pipe switch are provided in parallel connected branches of one of the reversible pump supplied hydraulic circuits, that wherein the pipe switch includes a position indicator (80) sensing the pipe switch pivot

switch.

position, that at least two cylinder switch sensors are provided spaced apart from each other on the cylinders, sensing the pistons of the drive cylinders as and/or the pressure sensor is provided they pass by, sensitive to the pressure sequence at the high pressure output of the reversible pump, and wherein that the computer supported reversing device includes a control program responsive on the one hand to the output signal of the position provider and on the other hand to the output signal of the cylinder switch sensors and/or the pressure sensor, for a program-controlled activation of a control element for adjusting the flow-through amount

direction of the reversible pump, as well as a reversing

element provided in the hydraulic branch of the pipe

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- 2. (currently amended) <u>The device</u> <del>Device</del> according to Claim 1, thereby characterized, that wherein the position indicator or encoder of the pipe switch is an angle transmitter.
- 3. (currently amended) The device Device according to Claim 1 or 2, thereby characterized, that wherein the control element is a diagonal disk of the reversible pump.
- 4. (currently amended) The device Device according to Claim 3, thereby characterized, that wherein the diagonal disk is adjustable hydraulically or electromechanically.

5. (currently amended) The device Device according to Claim 1
one of Claims 1 through 4, thereby characterized, that
wherein the reversing element is an electromagnetic or
mechanically controllable directional valve.

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6. (currently amended) A process Device for controlling a thick with two conveyor cylinders (50, pump communicating via two end openings (52) in a material supply container (54), operated in counter stroke by a hydraulic reversible pump (6) via hydraulic drive cylinders (5, 5') control by said pump, with a hydraulically actuated pipe switch (56) provided within the material container (54), on its inlet side alternatingly connectable to one of the openings (52) of the conveyor cylinders (50, 50'), freeing the respective other opening, and on the outlet side connected with a conveyor conduit (58), wherein the drive cylinders (5, 5') are hydraulically connected with connector of the reversible pump (6) via respectively one hydraulic line (11, 11'), and on their other end are connected to each other via an oscillating oil line (12), and further comprising a for reversing the reversible pump (6) after the conclusion of each piston stroke, thereby characterized, that wherein during the reversing process the pivot position of the pipe switch is measured, that wherein during the conveyor process the position of the piston in the drive cylinders is monitored

and in a terminal segment of each piston stroke the piston speed is slowed down by reducing the conveyance amount supplied by the reversible pump while the piston conveyed to its end position, that wherein in the case of an impacting piston the pressure supply to the actuating element of the pipe switch is reversed and the conveyance amount supplied by the reversible pump in an elevating phase is increased without direction change, until the pipe switch has reached a defined intermediate position on its pivot path, that wherein subsequently the conveyance amount supplied by the reversible pump is returned until the pipe switch has reached an end position, and that wherein the flow-through direction of the reversible pump is reversed and the pressure supply to the pipe switch is interrupted via a reversing element or is maintained by reversing.

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- 7. (currently amended) The process Process according to Claim 6, thereby characterized, that wherein in the subsequent flow-through reversal of the reversible pump a hydraulic reversing element connected with the pipe switch is reversed or blocked.
- 8. (currently amended) The process Process according to Claim 6 or 7, thereby characterized, that wherein the reversible pump in the elevation phase during the reversing process is for a short time controlled to a maximal conveyance amount.